Subject: Mathematics - Algebra I   Grade: Tenth

Standard: #7 Polynomials

Key Concept: Students add, subtract, multiply, and divide polynomials.

Generalization: Students divide polynomials by monomials.

Background:
    Students are already familiar with adding, subtracting, and multiplying
    polynomials. All students have worked with some form of algebraic
    manipulatives, such as alge-tiles or algeblocks, to illustrate the addition,
    subtraction, and multiplication of polynomials. This lesson would be used to
    introduce division of polynomials by monomials.

    The teacher reviews dividing a monomial by a monomial. Several problems
    should be illustrated with and without using the manipulatives. Next the
    teacher should review the long division algorithm using large numbers. The
    teacher then demonstrates several problems of dividing a polynomial by a
    monomial using the manipulatives.

This lesson is tiered in *process* according to *learning style*.

Tier I: *Logical-Mathematical Learners*
    Students in this tier are given several illustrated examples to follow either from
    their text or teacher prepared examples. Pairs of students complete a series of
    increasingly difficult problems from their text, e.g. Algebra 1 An Integrated
    Approach, ISBN #0-669-43359-4, page 603.

Tier II: *Kinesthetic Learners*
    Students in this tier use the manipulatives to solve the same series of problems
    from their text.

Assessment:
    Grade the assignment for accuracy of the answers.